## INTERNATIONAL SEARCH REPORT

Facsimile No.

International application No. PCT/JP03/13913

A. CLASSI	FICATION OF SUBJECT MATTER			
Int.	C1 <sup>7</sup> H01Q3/26			
		_		
According to	International Patent Classification (IPC) or to both national	onal classification and IPC		
D FIELDS	CEADCHED			
36: 1-11-10	supportation searched (classification system followed by	v classification symbols)		
Int.	C1 <sup>7</sup> H01Q3/26-3/30, H01P5/12, HC	7401/00	1	
	·			
	on searched other than minimum documentation to the e	extent that such documents are included i	n the fields searched	
Ti+e11	wo Shinan Koho 1922-1990			
Kokai	Jitsuyo Shinan Koho 1971-2004	Jitsuyo Shinan Toroku Koho	1996-2004	
Elastracia J.	ata base consulted during the international search (name	of data base and, where practicable, sear	ch terms used)	
PICCHOUSE OF	are some serios aring are more aring and are			
C. DOCUM	MENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where app	propriate, of the relevant passages	Relevant to claim No.	
Y	JP 2002-141849 A (Mitsubishi	Electric Corp.),	1-3,7	
	17 May, 2002 (17.05.02),		-3	
	Full text; all drawings Par. Nos. [0032] to [0035]; F	ig. 1		
	(Family: none)		. /	
		T.+d ) -	1-4,7	
Y	JP 11-17469 A (NEC Fukushima 22 January, 1999 (22.01.99),	шси.//	•	
	Full text; all drawings			
	(Family: none)			
	JP 3-104326 A (Hughes Aircra	ft Co.),	1	
λ	01 May, 1991 (01.05.91),	1		
.]	Full text; Fig. 1	416264 A3		
	& CA 2021905 A & EP & US 5068668 A1	410504 110		
	_			
	·		<u> </u>	
× Furth	ner documents are listed in the continuation of Box C.	See patent family annex.		
* Special categories of cited documents:  "T" later document published after the international filing date or  * Special categories of cited documents:				
"A" docum	nent defining the general state of the art which is not	understand the principle or theory und	claimed invention cannot be	
"E" earlier	document but published on or after the international filing	considered novel or cannot be considered	ered to involve an inventive	
"L" docum	ment which may throw doubts on priority claim(s) or which is to establish the publication date of another citation or other	step when the document is taken alon	e claimed invention cannot be	
	d meson (as specified)	considered to involve an inventive ste	h documents, such	
"O" document referring to an oral disclosure, use, exhibition or other means		combination being obvious to a perso document member of the same patent	n skilled in the art	
"P" docum	onent published prior to the international filing date but later he priority date claimed			
Date of the	actual completion of the international search	Date of mailing of the international sea 27 January, 2004 (	rch report 27.01.04)	
09 3	January, 2004 (09.01.04)	Z, valluary, 2004 (		
		Authorized officer		
Name and	mailing address of the ISA/ anese Patent Office	Antholized officer		
Japa	andbe radene orrade	Telephone No		
Bearings	vio.	Telephone No.		

## INTERNATIONAL SEARCH REPORT

Internation Application No.
PCT/JP03/13913

ategory*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 62-30406 U (Mitsubishi Electric Corp.), 24 February, 1987 (24.02.87), Full text; all drawings (Family: none)	1
Y	JP 2002-196834 A (Matsushita Electric Industrial Co., Ltd.), 19 July, 2001 (19.07.01), Full text; all drawings & WO 01/52446 A1 & AU 2553901 A & EP 1161002 A1 & CN 1358358 T	
Y	JP 2003-198489 A (The Boeing Co.), 11 July, 2003 (11.07.03), Par. No. [0024]; all drawings & EP 1320204 A1 & CN 1427648 A	.3
·		